

**AUTOMATIC FILTER CHANGER FOR USE ON SURFACE MOUNTER  
INSPECTION CAMERA**

**ABSTRACT**

5       A printed circuit board assembly machine inspects  
circuit boards and parts to be mounted on those circuit  
boards prior to assembly. This assembly machine may  
visualize and recognize physical features of the circuit  
boards and parts as part of this inspection. A filter may  
10 be deployed while visualizing certain types of circuit  
boards or parts to remove characteristic defects found in  
images of those types of parts. When several types of  
circuit boards or parts inspected by the assembly machine  
exhibit different characteristic visualization problems,  
15 the assembly machine may deploy a different filter for  
each type of circuit board or part.